

FIG. 1

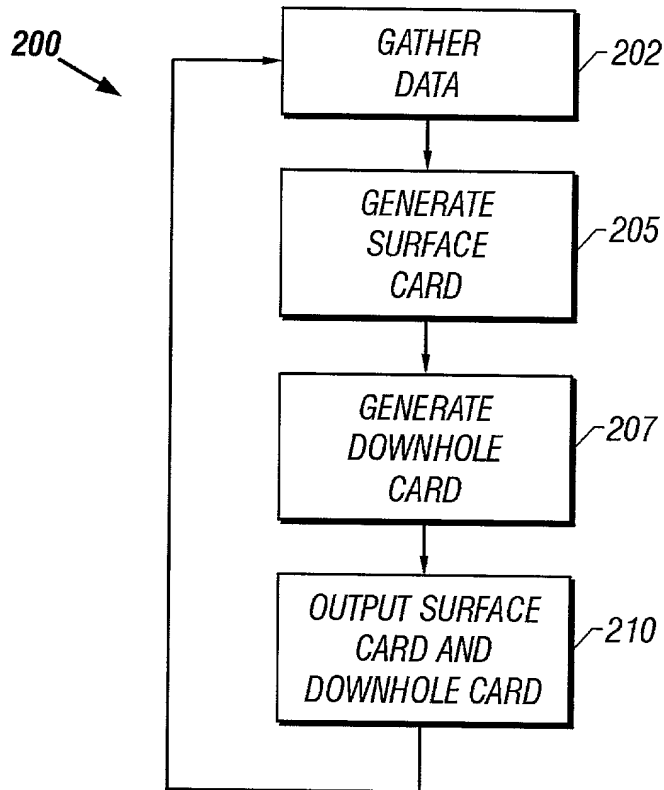


FIG. 3

2013014004660

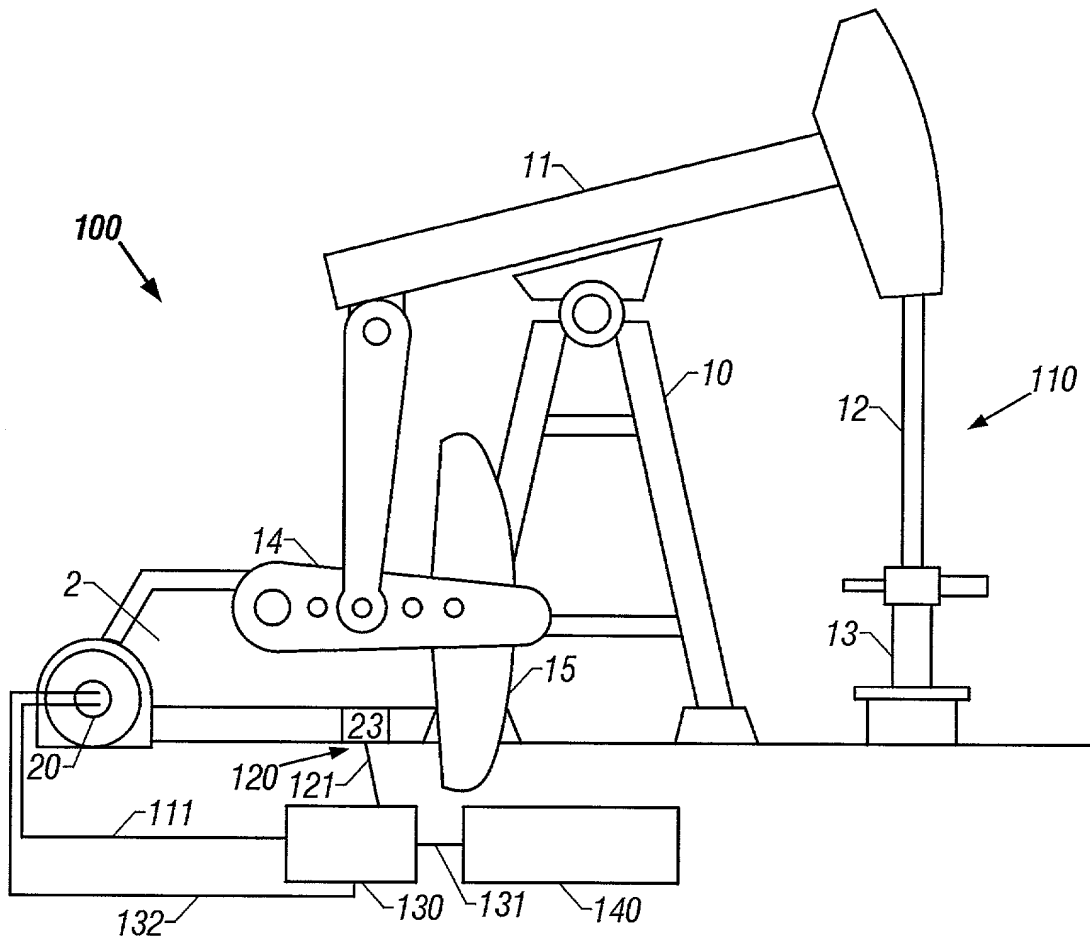


FIG. 2

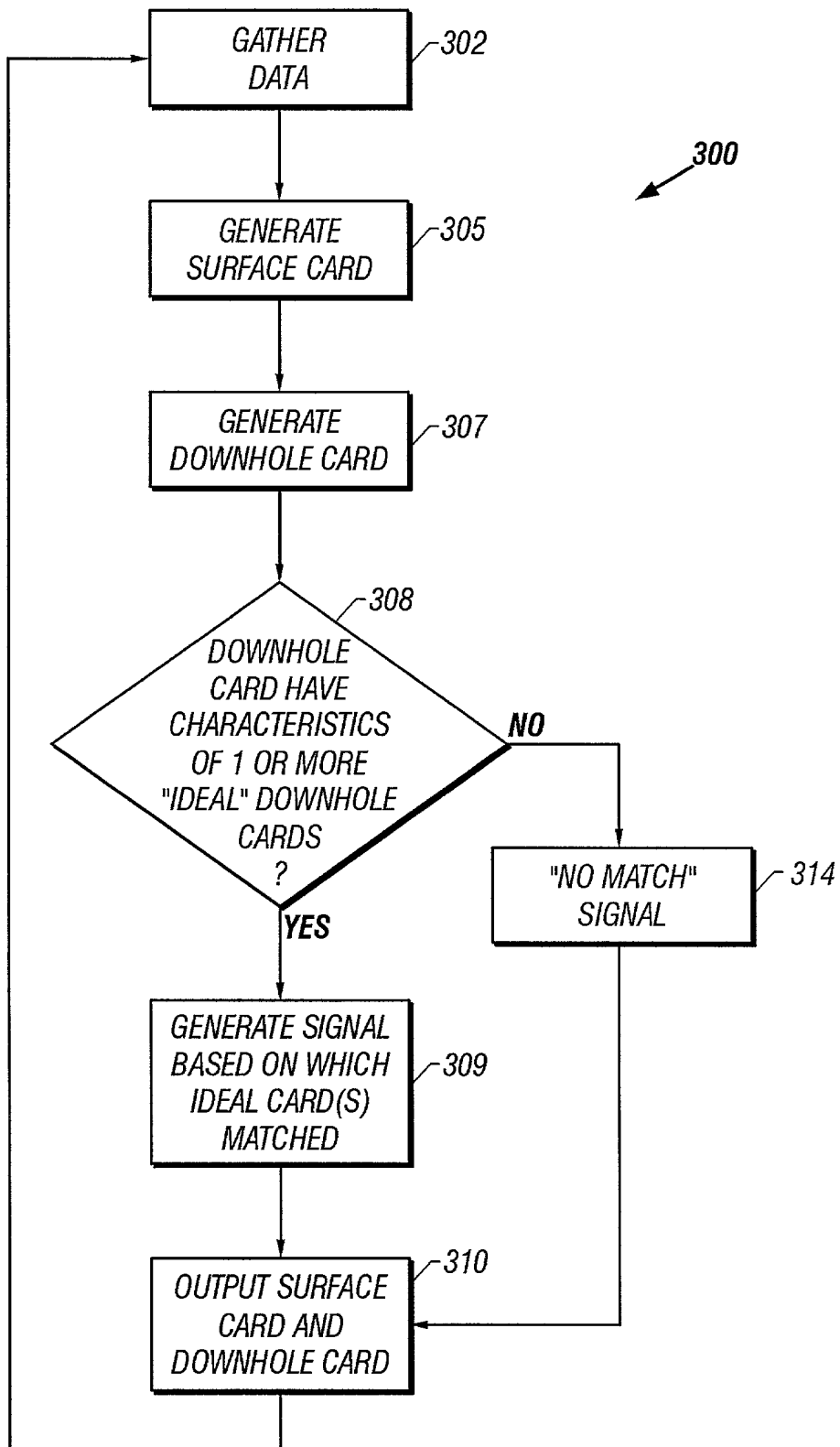
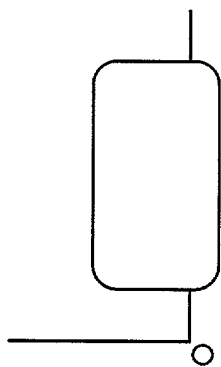
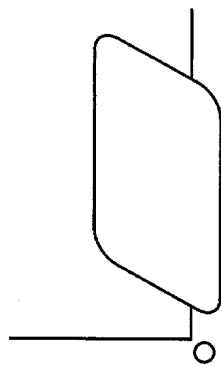


FIG. 4



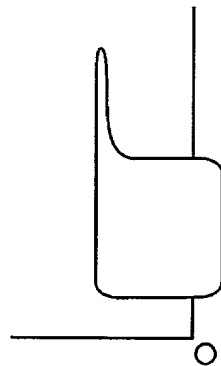
FULL PUMP

FIG. 5A



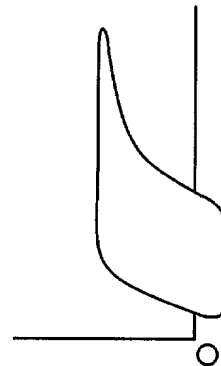
TUBING MOVEMENT

FIG. 5B



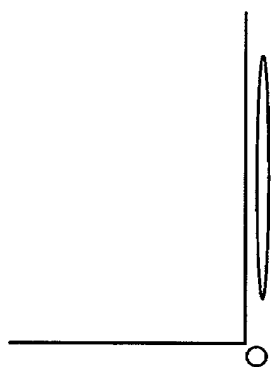
FLUID POUND

FIG. 5C



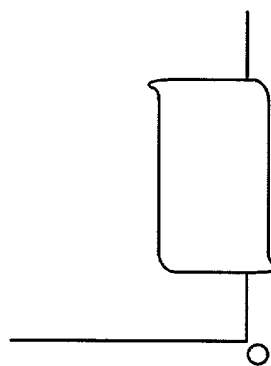
GAS INTERFERENCE

FIG. 5D



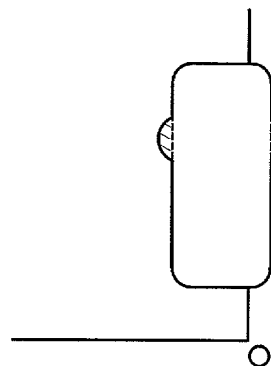
FLOWING WELL,
ROD PART,
INOPERATIVE PUMP

FIG. 5E



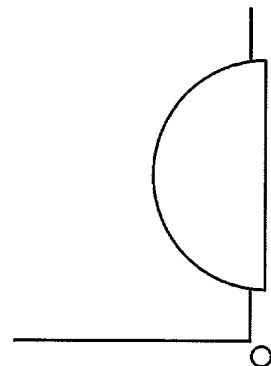
PUMP HITTING
UP OR DOWN

FIG. 5F



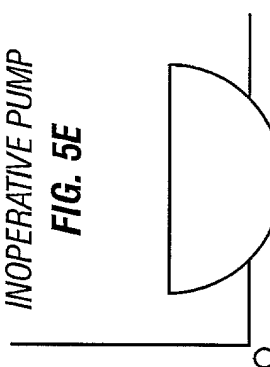
BENT BARREL OR
STICKING PUMP

FIG. 5G



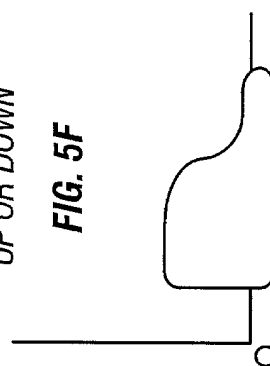
WORN PLUNGER OR
TRAVELING VALVE

FIG. 5H



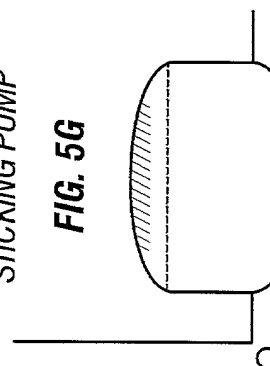
WORN
STANDING VALVE

FIG. 5I



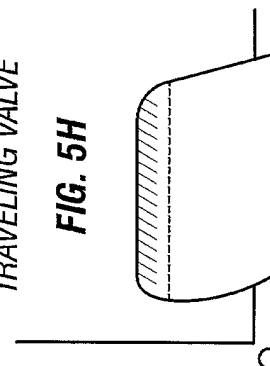
WORN OR
SPLIT BARREL

FIG. 5J



FLUID FRICTION

FIG. 5K



DRAG FRICTION

FIG. 5L

Display Type: SURFACE AND DOWNHOLE
Current State: Pumpins-Normal Mode.....004:46:58

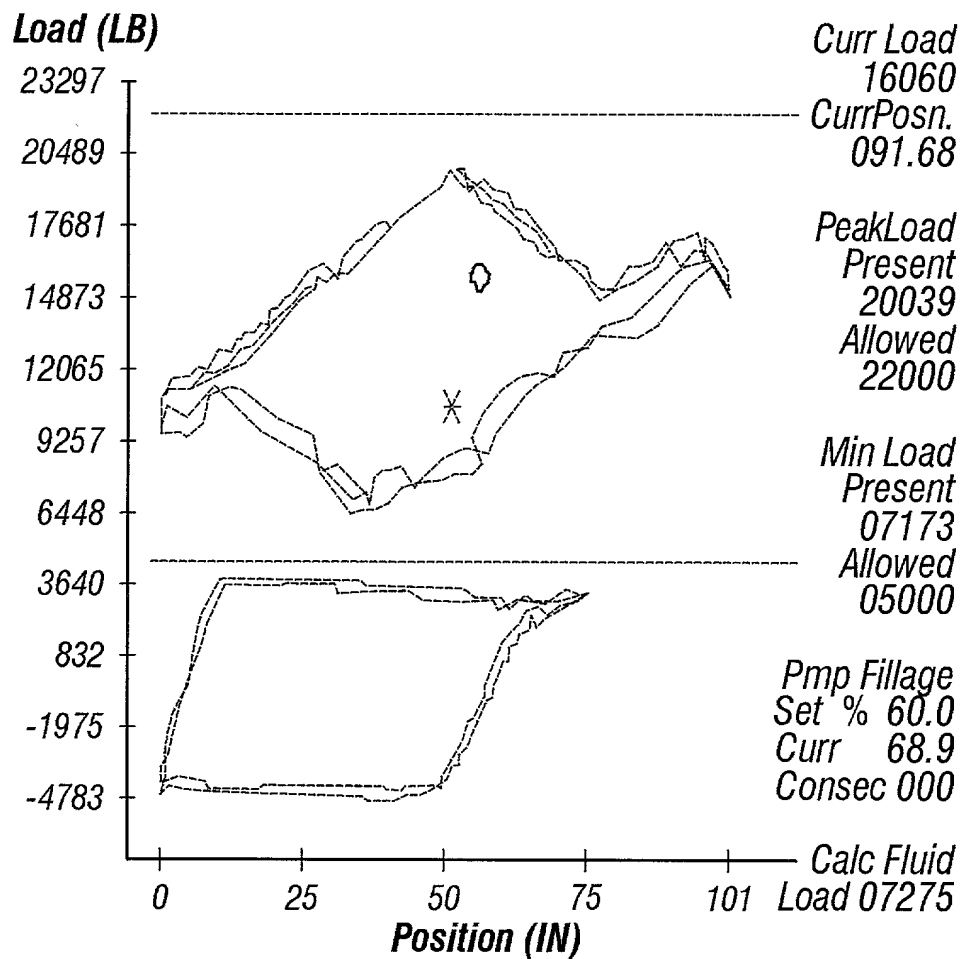


FIG. 6